



City of Columbia Incident Response Brief

Sunday, October 11, 2015

The following is a status update for the City of Columbia's incident response to the October floods. Timeframes are noted below for each section.

Maps

Boil Water Advisory - [Download map 10/11/15](#)

Water Distribution Locations - [Download map 10/10/15](#)

Water Distribution Sites

The water distribution sites and hours of operations are listed below:

<u>LOCATIONS: WATER DISTRIBUTION SITES</u>	<u>HOURS OF OPERATION</u>
Dutch Square (former Belk parking lot), 421 Bush River Road	8 a.m. - 6:30 p.m.
Midlands Shopping Center, 2638 Two Notch Road	8 a.m. - 6:30 p.m.
Former Sam's Club parking lot, 1401 Sunset Drive	8 a.m. - 6:30 p.m.
Wal-Mart, 5424 Forest Drive	8 a.m. - 6:30 p.m.
3700 Landmark Drive	8 a.m. - 6:30 p.m.
Lower Richland High School, 2615 Lower Richland Blvd.	8 a.m. - 6:30 p.m.
Eastover Park, 1301 Main Street, Eastover, SC	8 a.m. - 6:30 p.m.
Gadsden Community Center, 1660 South Goodwin Cir. Gadsden, SC	8 a.m. - 6:30 p.m.

Water Buffalos (Water Filling Stations)

Residents will need to bring their own clean containers to the water filling stations between the hours of 9 a.m. and 7 p.m. until the boil water advisory is lifted.

<u>LOCATIONS: WATER FILLING STATIONS</u>	<u>HOURS OF OPERATION</u>
Fire Station 4, 446 Spears Creek Church Road	9 a.m. - 7 p.m.
Fire Station 18, 7401 Fairfield Road	9 a.m. - 7 p.m.
Fire Station 29, 121 Old Congaree Run	9 a.m. - 7 p.m.

Fire Station 34, 321 Elders Pond Drive	9 a.m. - 7 p.m.
Melrose Tank, 1522 Gladden Street	9 a.m. - 7 p.m.
Columbia Place Mall, 7201 Two Notch Road	9 a.m. - 7 p.m.
Greenview Park, 6700 David Street	9 a.m. - 7 p.m.
Hyatt Park, 950 Jackson Avenue	9 a.m. - 7 p.m.
Heathwood Park, 800 Abelia Road	9 a.m. - 7 p.m.
Southeast Park, 951 Hazelwood Road	9 a.m. - 7 p.m.

- Customers can bring clean containers and fill from 250 gallon tanks delivered to above sites.
- National Guard providing security and on-site assistance at tanks.
- Water at these sites is being supplied by a water purification technology unit on loan from Water Missions International. Licensed drinking water plant operators from the South Carolina Water and Wastewater Response Network have volunteered to run this unit.
- FAQ:
 - Each Station will have elevated 275 gallon water tanks with valves on site.
 - This water is being provided by a reverse osmosis filtration unit. It has been tested and found to be safe to drink. Water Missions International and South Carolina Water and Wastewater Response Network are partnering with the City to supply and support this unit.
 - Stations will be set up and distributed at fire stations around the City of Columbia and filled by a water buffalo water truck.
 - “Please take what you need”
 - Stations will be monitored to provide enough water to each location.

Water System

- Canal breach
 - Repair
 - Continuing to move materials onto canal-side of the levy to stabilize the embankment. This will continue at least through tomorrow.
 - Still working on closure. Needed materials and equipment are being delivered, but the challenge is to place them on the berm side without destabilizing the site. It is a slow and tedious process.
 - Continuing to try and reduce the flow upstream.
 - Have adequate capacity in the canal to supply water plant.
 - Walking canal twice a day to look for further breaches. There are some signs of slope stability issues and sloughing further upstream that are being watched closely but are not presently a concern.
 - Bypass pumping
 - Began working on bypass pumping plan earlier this week.

- Canal pumping - 5 bypass pumps are currently pumping water from the Canal into the Canal Plant. One to two additional pumps will be added Fri., Oct. 9 to provide additional supply
 - Broad River pumping – 2 pumps were installed and tested to draw from the Broad River and supply the Canal. Operation scheduled to begin this morning (Fri., Oct. 9). 3 more pumps were installed and awaiting testing. 4 more pumps installed, tested, and put into operation Fri., Oct. 9.
- Canal Water Treatment Plant
 - Plant production
 - Plant production is stable. Finished water quality is excellent and meeting standards.
 - Flow into reservoir is at 36 million gallons per day. Reservoir is currently FILLING.
- Lake Murray Plant
 - Stable and fully operational. Finished water quality is excellent and meets standards.
 - All distribution facilities for this part of the distribution system are fully operational
 - Bypass pumping
 - Began working on bypass pumping plan earlier this week.
 - Canal pumping - 5 bypass pumps are currently pumping water from the Canal into the Canal Plant.
 - Broad River pumping – Single 24" line is being pumped as of 4:30 a.m. Sat., Oct. 10. Additional 24" line and pump are being installed with some delay due to weather; anticipate completion within 48 hours.
 - Supply line from Cayce put into service at approximately 9 p.m., Fri., Oct. 9 to add approximately 2 million gallons per day.
 - CRFD has been using tanker trucks to assist in replenishing reservoir as well.
 - Conservation message
 - Initiated water use minimization/ conservation message earlier this week.
 - Instituted a mandatory irrigation shut-off on Fri., Oct. 9, for all City water customers until further notice.
 - Declaration for large, non-critical water customers to curtail use until further notice is UNDER CONSIDERATION.
- Distribution System
 - All lines should be pressurized now. Any lines under repair should only be affecting pressure, not causing water outages. Some customers may be experiencing air pockets in their lines that make it look like they are out of water. Customer Care is advising them to open their cold water spigot for a couple of minutes to bleed the air. If water still does not run, they should then turn off the spigot and report it as an outage.
 - Line break updates: (No update since Fri., Oct. 9) Completed Monday, Oct. 5 – Thursday, Oct. 7:

- Bluff Road south of Pineview
- 12" at Lostcreek
- 12" Trenholm and Rockbridge
- Tall Pines Circle off South Beltline
- 8" Trenholm and Cary
- Earlewood at Sunset
- Quail Hill Subdivision
- 16" at Kings Grant
- Monticello and Blue Ridge Terrace
- Hunt Club Road
- 510 Lakeside Avenue
- Beaver Dam Road
- 18" line break between South Beltline and Veterans
- 300' section out along Caughman Road from Benson to Dominion
- Overcreek – 6" broke in half at dam breach
- 10" break on Forest between Trenholm & Percival
- Under Repair:
 - 24" on Kay Street – Partially repaired. Awaiting a part for final repair; anticipate Monday completion.
 - 3200 Fernandina Road
- Flooded : Not aware of any breaks, but will analyze after water recedes
 - 4220 Shady Lane
 - Arcadia Lakes
 - Monticello and Cedar Creek

Wastewater System

- Metro Plant (no update available. Last update - Fri., Oct. 9)
 - The plant is fully operational. Producing fully treated effluent at 68 million gallons per day.
 - Equalization basin is at 129.5 ft. Max is 134-135. Influent wet well at 122.25 ft.
 - Plant returned to normal staff rotation on Sat., Oct. 10 using nearby dry farm field.
 - Out of dewatered sludge storage roll off boxes; storing sludge in the online digesters. Have plans to use offline digesters as sludge storage tanks if new boxes not delivered soon. Estimated 10 days of sludge storage at current wasting rates, although seeing signs that this level is increasing.
 - Coordinating with EMD to deliver these boxes.
 - Calculating at least 4 days of supply of all chemicals.
 - Seeing rising ammonia levels in plant before the storm. This is an indication of less flood water entering the system.
 - The collections system still appears to be taking in Inflow because the wwtp influent pumpstation remains inundated and the low manholes coming into the plant are overflowing due to the surcharge condition, operators are increasing the flow into the plant to aid these levels (currently influent flow – 72 million gallons per day).
- Collection system
 - Pump Stations

- West Columbia Pump Station an additional pump was lost. Operating with 2 pumps; attempting to repair the second lost pump.
- Lost connection with Saluda River Pump Station. Crews in route to check on status.
- Bendale is flooded.
- Harbison #4 is running at high level.
- Staff will check control manhole for Saluda River Pump Station when the rain stops.
- Sanitary Sewer Overflows
 - Multiple active overflows
 - Brickyard is underwater and overflowing.
 - Multiple manholes along Gills Creek overflowing.
 - Investigating other possible SSOs
- Current assessment
 - Wastewater Maintenance has crews out today & tomorrow evaluating the system using CCTV & inspection of manholes & easements.

Boil Water Advisory

The City of Columbia Water Works advises water customers located **north of Interstate 20, west of Hardscrabble Road, and east of the Broad River, as well as the area along Parkridge Drive between Harbison Boulevard and Lake Murray Boulevard**, located in Richland County, that they no longer need to boil their water prior to drinking or cooking.

Following an intense flushing of the distribution system, bacteriological samples were collected and analyzed by the City of Columbia Water Works. The results of this sampling indicate that the system is safe to use for drinking and cooking purposes.

Should you have any questions concerning this repeal of the Boil Water Advisory, you may call the City of Columbia Customer Care Call Center at 545-3300.

In addition to those areas included above in this repeal, **customers in the following areas are also included as part of the repeal issued on Oct 7: Town of Chapin, Ballentine, around Hwy 6 at the Lake Murray Water Treatment Plant, customers on Farming Creek Road and customers along Broad River Road down to Geology Road to include the Lost Creek Drive and Chestnut Hills area.**

All other water customers are still under the advisory and should follow the City's [drinking water advisory guidelines](#). In addition, city officials are asking citizens to continue minimizing water usage until further notice. By conserving water, residents will assist the City in protecting one of the region's main water sources while repairs are being completed.

Voluntary Water Conservation

As the City works to stabilize water levels at the Columbia Canal, City officials are asking citizens to minimize water usage until further notice. By conserving water, residents will assist the City in protecting one of the region's main water sources while repairs are being completed. As a reminder, the system-wide boil water advisory is still in effect for all water customers.

For more information on water conservation, please visit <http://columbiasc.gov/press-releases/100420152013-city-working-to-restore-customer-water-services>.

FEMA Disaster Recovery Centers

A Disaster Recovery Center is a readily accessible facility where applicants may go for information about FEMA or other disaster assistance programs.

The City is working with Richland County and the State to open a number of FEMA Disaster Relief Centers in the coming days at Richland County Libraries. Governor Haley will make an official announcement once all centers are open and ready to serve the public. The following locations will hold a soft opening beginning at 1 p.m. on Sat., Oct. 10:

South East Library

Address: 7421 Garners Ferry Rd, Columbia, SC 29209

Phone: (803) 776-0855

Eastover Library

Address: 608 Main St, Eastover, SC 29044

Phone: (803) 353-8584

The City is working closely with SCEMD and will have more information as it becomes available.

Service Calls

Columbia Richland Communications 9-1-1

	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11 (00:01-08:00)	Event Total
CPD	631	554	650	605	133	96	113	95	4,072
CFD	1,014	225	159	156	25	24	18	39	1,978
RCSD	709	655	641	578	135	146	136	121	4,438
RCEMS	343	240	226	233	43	42	50	50	1,703
Daily Total	2,697	1,674	1,676	1,572	336	308	317	304	12,190

CRC Call Volume

	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11/2015 (00:00-08:00)	Event Total
911	4,653	2,075	1,775	1441	258	157	215	164	13,088
Non-Emergency	1,762	2,308	2,123	1818	233	269	208	201	11,680
Daily Total	6,415	4,383	3,898	3,259	491	426	423	365	24,768

*Daily Totals reflect 24 hour period beginning at midnight daily.

Customer Care Center

	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11 9a – 5 p	Event Total
Daily Total	6,562	4,390	2,633	2,554	3,738	3,372			19,877

Law Enforcement

Operation Period: Oct. 10th – Oct. 11th 1800 – 0600

Regional Personnel

Downtown (Lt J Williams): Personnel 11 / Vehicles 11
West Region: Personnel 5/ Vehicles 5
North Region: Personnel 13/ Vehicles 13
Metro Region: Personnel 12/Vehicles 12
East Region: Personnel 4/ Vehicles 4
South Region: Personnel 11/Vehicles 11
Greenville City Police: 8/ Vehicles 8 (Lake Katherine) (*12 Hours Worked)

Fixed Post

SC Army National Guard (SCARNG): Personnel -36/ Vehicles 20

EOC Personnel:

Columbia Police department (CPD):1
Columbia Fire Department (CFD): 1
City of Columbia: 2
Richland County Sheriff's Department (RCSD): 3
SC EMD: 1

Total Personnel:

Total Vehicles:

EOC: None

Notable Calls for service related to weather:

Water main break 1200 College St. Road closed Westbound lane only, on College St. between Main and Sumter St.

Web EOC 213 Resource Request Processed: 0

Missing persons (Shift): None (Total Outstanding): None

Weather related fatalities: (Shift) None

Weather related fatalities to date City/Cty: 9

Road Closures

*As conditions change, roadways may be opened.

Road Closures 10/10/2015

Road Closures by Region:

North Region

1. 5000 North Main St – Sinkhole (Barricaded)
2. 6800 North Main St – roadway washed out (manned)
3. Sunset and River – East on Sunset to Main (Barricades)
4. Main & Anthony- Road closed sign- local and emergency traffic only

5. Main & Sunset – Blocked South on Main and West on Sunset (manned)
6. Main & Grace – Closed North on Main to Sunset –Emergency traffic only – (manned)

Metro region

1. 3200 Pinebelt Rd – Roadway caved in (Barricades)
2. 3400 Foxhall Dr – Roadway caved in (Barricades)
3. Taylor & Williams- Manned (to block off Jarvis Klapman Bridge access)
4. Taylor & Hampton- Manned (to block off Jarvis Klapman Bridge access)
5. 1200 College St. between Main and Sumter St. Westbound Lane only (reopen approx. 1130 hrs. (*NEW*))

Metro Region closures due to closing off of Taylor and Marion intersect

1. Taylor Street (eastbound) closed at Sumter Street to Marion St
2. 1300 Marion Street, North and South bound lanes (between Taylor and Hampton St) closed
3. The parking spaces on the East side of 1300 Sumter Street and lane # 2 northbound (closest to the curb) have been blocked to provide room for the trailers that are providing service for Baptist Hospital. This may change due to the needs of the
4. Hospital and the equipment being used.

South region

1. Shop Road at S. Beltline – Structural Damage (DOT Barricade/Cones)
2. I-77 at the Bluff Rd exit ramp – Structural Damage (DOT Barricade/Cones)
3. 4600 Devine Street Bridge – Structural Damage (Active 10-54 by personnel (2)
4. Jim Hamilton Blvd (West bound) – Structural Damage (DOT Barricades/Cones)
5. Crowson Rd (small bridge leading to Marshalls) – Structural Damage (DOT Barricades/Cones)
6. E. Buchanan and Beltline – Structural Damage (DOT Barricades/Cones)
7. 4400Ft Jackson Blvd – Sink hole (Barricades)
8. 1300 Glen Haven Dr. – Washed out (Barricades)
9. 4100 Timberlane Dr. – Washed out (Barricades)
10. 3500 Trenholm Rd- Sink Hole in middle of roadway -Blocked both directions between
11. Wyndham & Tanglewood –DOT placed metal barricades and cones up to block roadway (NEW)
12. Timberlane Dr at Greenhaven Dr – Flooding – Blocked off East on Timberlane and Greenhaven (NEW)

East Region

1. 300 Spears Creek Church Rd – Washed out (Barricaded)
2. 3600 Percival to Smallwood – Washed out (Barricaded)

West Region

1. Lost Creek Dr – Lake Front Dr to Chestnut Hill Plantation Club (Barricaded)
2. Piney Grove (Newnham Dr to Bonnie Forest Blvd). Bridge partially washed out (Barricaded)

Looting and violation of curfew arrests

Columbia Police Chief Skip Holbrook and Richland County Sheriff Leon Lott announced a violation of the mandatory City/County curfew and an additional looting arrest related to the South Carolina flooding event.

10/10/15

OBryan Cabbagestalk (DOB: 1-10-1985) is charged with Violation of Curfew and Simple Possession of Marijuana.

Deputies located Cabbagestalk shortly before 1:00 o'clock this morning at Nick's Gyros and Philly's restaurant located at 1931 Broad River Road.

Deputies on patrol noticed Cabbagestalk in a vehicle breaking the mandatory curfew. While speaking with him, deputies also lawfully searched the suspect and discovered that Cabbagestalk possessed marijuana.

Additionally, a tip led to the arrest yesterday of 21-year-old Shiparish Yates (DOB: 12-15-1993). She is charged with Looting (During a State of Emergency).

Yates is accused of stealing miscellaneous items from a neighbor who evacuated the flood waters earlier in the week from Shandon Crossing Apartments located at 504 South Beltline Boulevard.

Yates allegedly stole an Xbox gaming system, televisions and a microwave from the male victim.

The tipster advised law enforcement that stolen items were being stored in Yates' apartment. Deputies executed a lawful search warrant at her home and discovered stolen merchandise.

A Richland County judge set Yates' surety bond at \$10,000.

Cabbagestalk and Yates are being housed at the Alvin S. Glenn Detention Center.

**** The City/County-wide curfew remains in effect from midnight until 6:00 a.m. ****

10/09/15

Jeremy Jeffers (DOB: 8-30-1982)

Charge: Looting during a State of Emergency

Jeffers is accused of stealing miscellaneous items from front yards of flood victims at the 1200 block of GlenHaven Drive on Oct. 9, 2015.

A CPD Officer made the arrest while conducting security checks in various neighborhoods. The stolen items were returned to their rightful owners.

Citizens who witness looting should call 9-1-1.

For more information regarding the SC Code of Law for Looting, visit:

www.scstatehouse.gov/code/t16c007.php

10/08/15

- Justin T. Fann (DOB: 8-20-1982)
- Timothy B. Wyllie (DOB: 6-11-1983)

Charge: Looting

- SC Code of Law: 16-7-10 (2): Unlawful Activity During State of Emergency - Accused of stealing resident's belongings from front porches in the Glennhaven/ Western Pine area.

Report from Richland County:

RCSD arrested 73-year-old **Charles Kauffman** (DOB: 11-2-1942) with **Attempted Murder** and **Illegal Acts during a State of Emergency**.

He was arrested at his Holly Ridge Lane home this morning.

Kauffman is accused of hitting a SC National Guardsman with his vehicle near Harvest Hope on Shop Road Friday. The victim was directing traffic at the time and suffered serious injuries. He has since been treated and released from a local hospital.

RCSD also wrote two citations for violating curfew. I am working on gathering additional information.

All persons arrested/charged are presumed innocent until or unless proven guilty in a court of law.

Fire

October 3, 2015 0800 – October 8, 2015 2000

- Search Teams
 - CFD, CPD, RCSD, SLED, SC National Guard, US Army, Aiken Sheriff Department, SCDNR, State Boat Teams, SC Forestry Commission, Virginia USAR (Urban Search & Rescue)
 - 349 Team Members
- **Columbia Fire Department is partnering with Palmetto Health** - *CFD is providing resource to assist with an aid station in one community affected by Flood Joaquin*
 - The Columbia Fire Department is partnering with Palmetto Health on Friday, October 9 – Tuesday, October 13 from 9 a.m. – 6 p.m. at 4811 Devereaux Street, to provide a resource, Metropolitan Emergency Response Vehicle (medical bus) for a community first aid station for the citizens of the Lake Katherine, Burwell, Rickenbacker, Kings Grant areas.
 - Volunteer physicians, nurses, nurse practitioners and paramedics from Richland County EMS are providing care to those who need wound care, tetanus evaluation/update and general medical care.
- **Public Status Summary**
 - Completion of door to door search & rescue operations
 - Northern Richland County assessed to determine need for additional search
 - 9 fatalities/all 9 were recovered during search & rescue missions to date
 - 338sq mi searched
 - 281sq mi assessed for need
 - 8,110 homes checked/cleared
 - 473 civilians evacuated/all others contacted-sheltered in place
 - 2,095 civilians assisted
 - 11 pets rescued/sheltered with owner
- **Responder Status Summary**
 - 3 Injured/Illness responders (Day 1)
 - 1 trapped/in need of rescue (Day 1)
 - All 4 were FF MAYDAYS (FF life or safety is in jeopardy & FF is unable to remove him/herself from threatening situation)
 - Responder returned to service next day

- **Primary Materials or Hazards Involved (these hampered normal fire suppression coverage)**
 - Significant flooding in urban areas
 - Access and egress limited due to flooding and damaged roads/bridges
 - Dams of ponds & lakes in the area have been compromised & pose risk of additional flash flooding.
- **Weather Concerns**
 - Ground in area is saturated. Ten day forecast includes chance of additional rain
 - 10/9/15 Forecast
 - Sunny, 82 degrees, winds light & variable
- **Objectives**
 - Provide search & rescue to citizens effected by flooding
 - At mission completion affected areas will be canvassed, cleared & citizens assisted with critical needs.
- **Current Incident Threat Summary & Risk Information**
 - Next 48hrs -Limited access/egress, dams at risk of breaching, citizens with no power/potable water
- **Critical Resource Needs**
 - Next 48hrs-Military assets/transport, USAR boat teams (SC Task Force 1), Mutual Aid Firefighting resources/Firefighter Mobilization assets
- **Planned Actions for Operational Period #11**
 - Transition operation back to CFD
 - CFD will provide safety & support for canal operations
 - Continue assisting hospitals with water needs (low water pressure)
 - Maintain normal CFD operations & provide increased presence in affected communities
- **Incident Management Team (IMT) Demobilization**
 - IMT transitional process back to CFD
 - CFD has requested multiple fire suppression assets through SC Firefighter Mobilization
 - Tankers throughout the State are being strategically placed in response areas due to lack of roadway access
 - Note-not for any city canal concerns

*Once all roadways are accessible Firefighter Mobilization will demobilize

Solid waste

- Storm debris collections started on Wednesday, Oct. 7. Will continue throughout weekend.
- Garbage collections normal service began Thursday, Oct. 8.
- Solid Waste Division will resume regular garbage and recycling services on Monday, October 12, 2015, with the exception of yard waste.
 - Currently, the Solid Waste Division is focusing on storm debris cleanup and will suspend regular yard waste pickup services until Monday, October 19, 2015.
 - Garbage and recycling services may be limited in storm areas due to street access and roadway safety.

- To stay informed on Solid Waste services, residents can download the free “Columbia, SC Solid Waste” app on iPhone and Android or sign up online at the City’s website for notifications via email, phone call or text message, among other options.
- For more information or to report lost roll carts, please visit www.columbiasc.net/solid-waste or call the Solid Waste Division at 803-545-3800.

Flood Damaged Property - Building Permit Information

There are very important facts to be aware of before moving forward with any repairs to a flood-damaged home located in the floodplain. Taking steps without accurate information can cost time and money. Please see details below.

Anyone making repairs to a flood-damaged structure in the City of Columbia needs to get a zoning and building permit from the Development Center. If using the service of a contractor, they must be licensed by the South Carolina Department of Labor, Licensing, and Regulation. More information about the permitting process can be found online at <http://www.columbiasc.net/development-inspections> or by calling (803) 545-3483. For more information on the Floodplain Development Permitting process, please visit <http://www.columbiasc.net/floodplain>.

Floodplain Management Contacts

- Flood Plain Management questions:
Ali Khan (803) 545-3400
lakhan@columbiasc.net
- Building Code questions:
Jerry Thompson (803) 545-3442
jthompson@columbiasc.net
- Building Permit questions:
Development Center (803) 545-3483
- Planning questions:
Krista Hampton
kmhampton@columbiasc.net

Do I have the green light to get a building permit for my flood-damaged property?



Green light: If your property is not located within the 100-year floodplain or is constructed at least two (2) feet above the base flood elevation, you will be issued a building permit for repairs that meet other applicable code standards (such as building and zoning).



Yellow light: If your property is located within the 100-year floodplain, before a building permit can be issued, it must first be determined through the completion of a Flood Hazard Permit Application:

- The elevation of the first floor of the property through submittal of an *elevation certificate*. (The City's Floodplain Manager may have one on file).
- If the structure sustained *substantial damage* or will require *substantial improvements* to make it habitable.



Red light: If your property is located within the floodplain and sustained *substantial damage* or will require *substantial improvements* to make it habitable, the structure will have to come into compliance with the City of Columbia's Flood Damage Prevention Ordinance. This means that the first floor of the building must be constructed at a height of two (2) feet above the base flood elevation. Please discuss how this affects your property specifically a City flood management representative.

What is *substantial damage*?

Substantial damage means damage of any origin sustained by a structure where the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred. (Note: the cost of repairs must include all costs necessary to fully repair the structure to its pre-damaged condition.)

What are *substantial improvements*?

Substantial Improvement means improvements of any origin where the cost of improving the structure would equal or exceed 50 percent of the market value of the structure before the improvements are made. (Note: the cost of improvements must include all costs necessary to fully improve the structure.)

What is an *elevation certificate*?

The *elevation certificate* is one way for a community to comply with the National Flood Insurance Program requirement that the community obtain the elevation of the lowest floor (including basement) of all new and substantially improved structures and maintain a record of such information. Elevation Certificates must be prepared and certified by a Licensed Land Surveyor, Registered Professional Engineer or Registered Architect who is authorized by state or local law to certify elevation information.

Donations and Volunteers

- Please advise people to contact the United Way, Red Cross, Harvest Hope, or one of the shelters.
- United way has set up on their website, communications about getting and receiving help: <http://uway.org/news/give-help-get-help-flood-disaster-relief>.
 - This site allows the public to register to help and is a resource for those needing help who are encouraged to call 211 for non-emergency needs.
- Donations of food are being referred to Harvest Hope Food Bank located at 2220 Shop Rd in Columbia.
- No clothing is requested at this time during emergency response. United Way will continue to address needs.
- Citizens and/or businesses wishing to donate food or water may bring these items to the Columbia Fire Department at 1901 Harden St from 8 a.m. – 10 p.m.
- Donated Goods and Services of South Carolina will be coordinating donations and volunteers. Please call 1-888-585-9643.

Additional Notes

- Curfew
 - Midnight to 6 a.m. through Monday, October 12, 2015
- City staff
 - City offices are closed Friday, October 9th.
- Federal Disaster Applications
 - To begin the Federal Disaster application process, please call 1.800.621.FEMA or visit <http://www.disasterassistance.gov>.
- Shelters
 - There are a total of 104 evacuees as of Sat., Oct. 10. Richland County designated shelters are listed below.
 - Temple Baptist Church, 806 Universal Drive (off Garners Ferry Road), is currently open and operating as a shelter – displaced residents needing shelter can report there today. (36 evacuees as of Sat., Oct 10)
 - St. Andrews Middle School continues to be open as a shelter, though it is anticipated to be closed Sunday, Oct. 11 as St. Andrews Presbyterian Church will be operating as a second shelter. (68 evacuees as of Sat., Oct. 10)

If an alternate location is needed, Shandon Baptist Church is available.